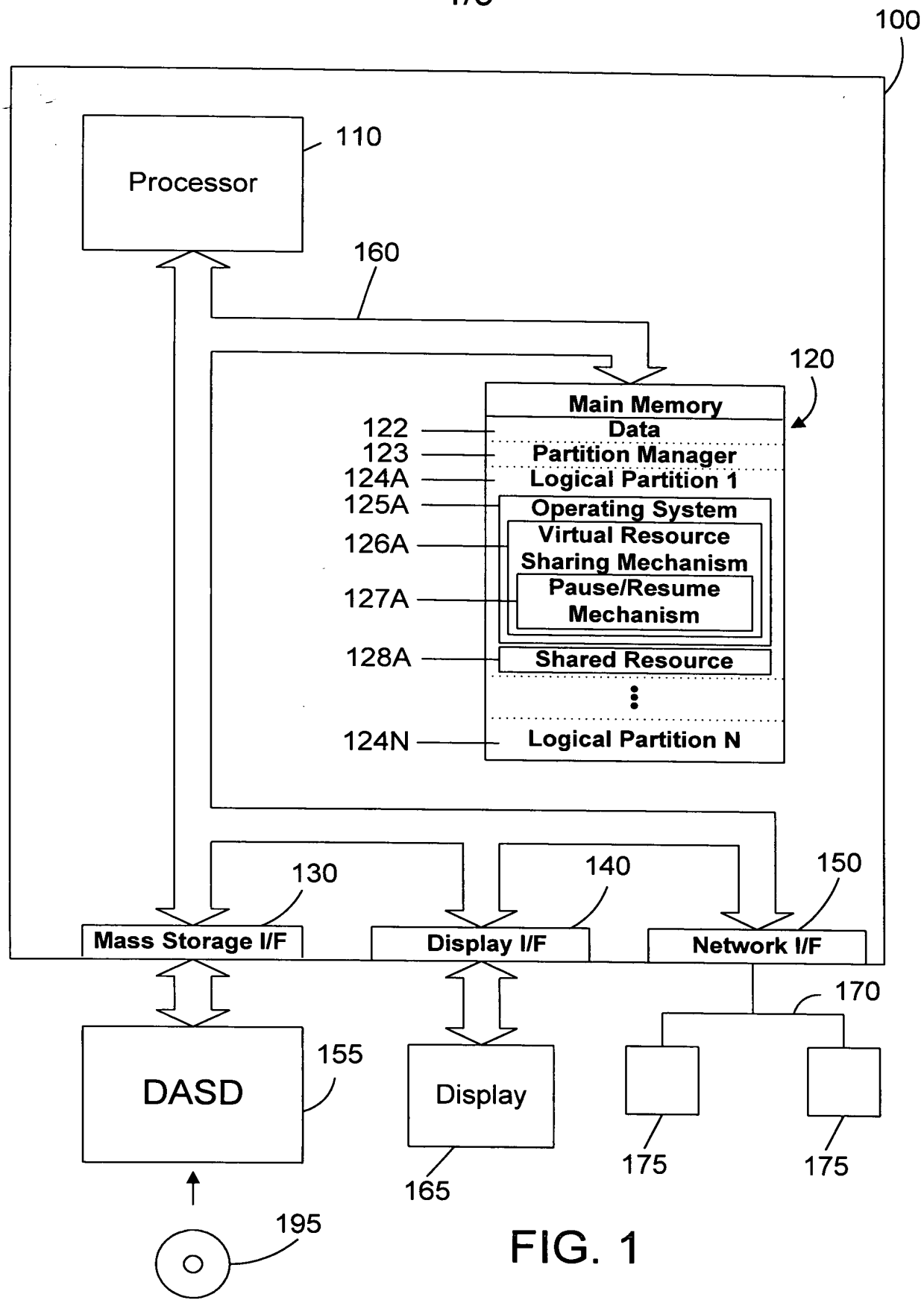
100
Processor
110
160
120
Main Memory
122
Data
123
Partition Manager
124A
Logical Partition 1
125A
Operating System
126A
Virtual Resource Sharing Mechanism
127A
Pause/Resume Mechanism
128A
Shared Resource
124N
Logical Partition N
130
140
150
Mass Storage I/F
Display I/F
Network I/F
170
DASD
155
Display
165
175
175
195

FIG. 1

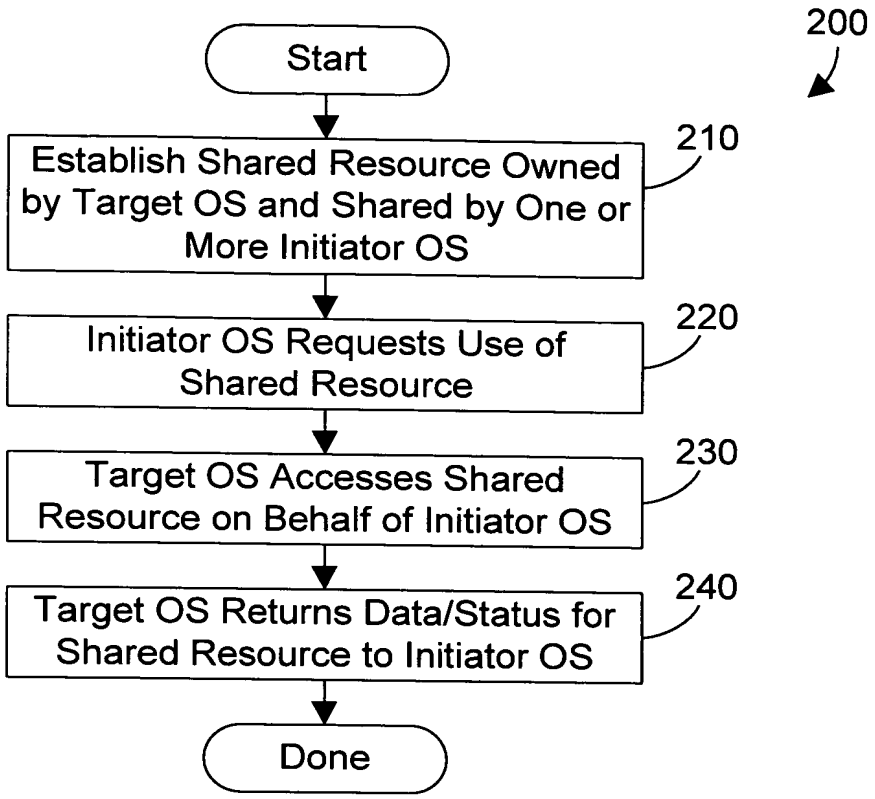

FIG. 2 Prior Art

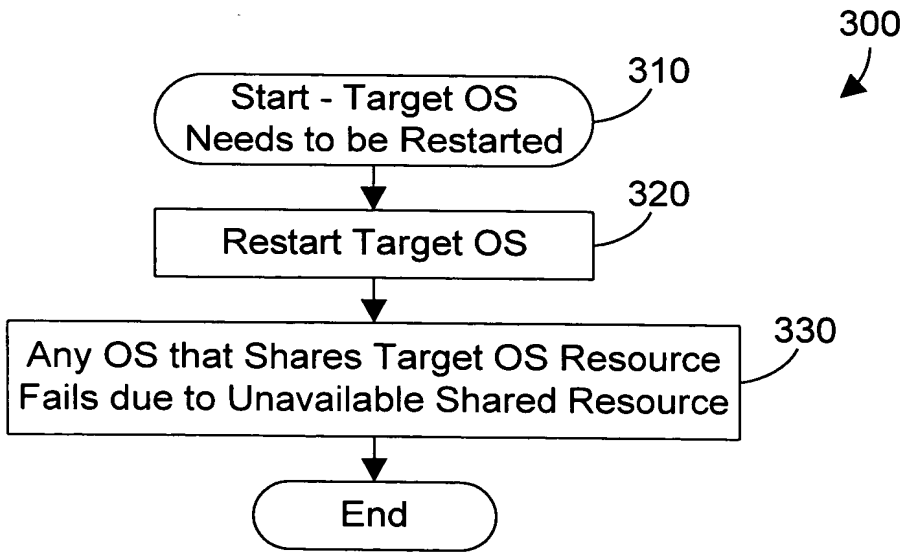

FIG. 3 Prior Art

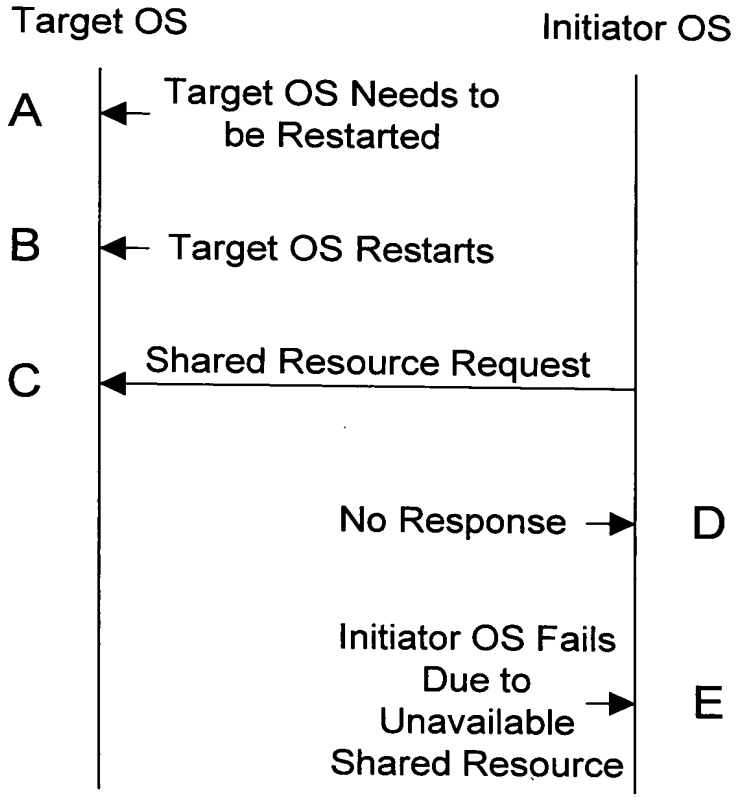

FIG. 4 Prior Art

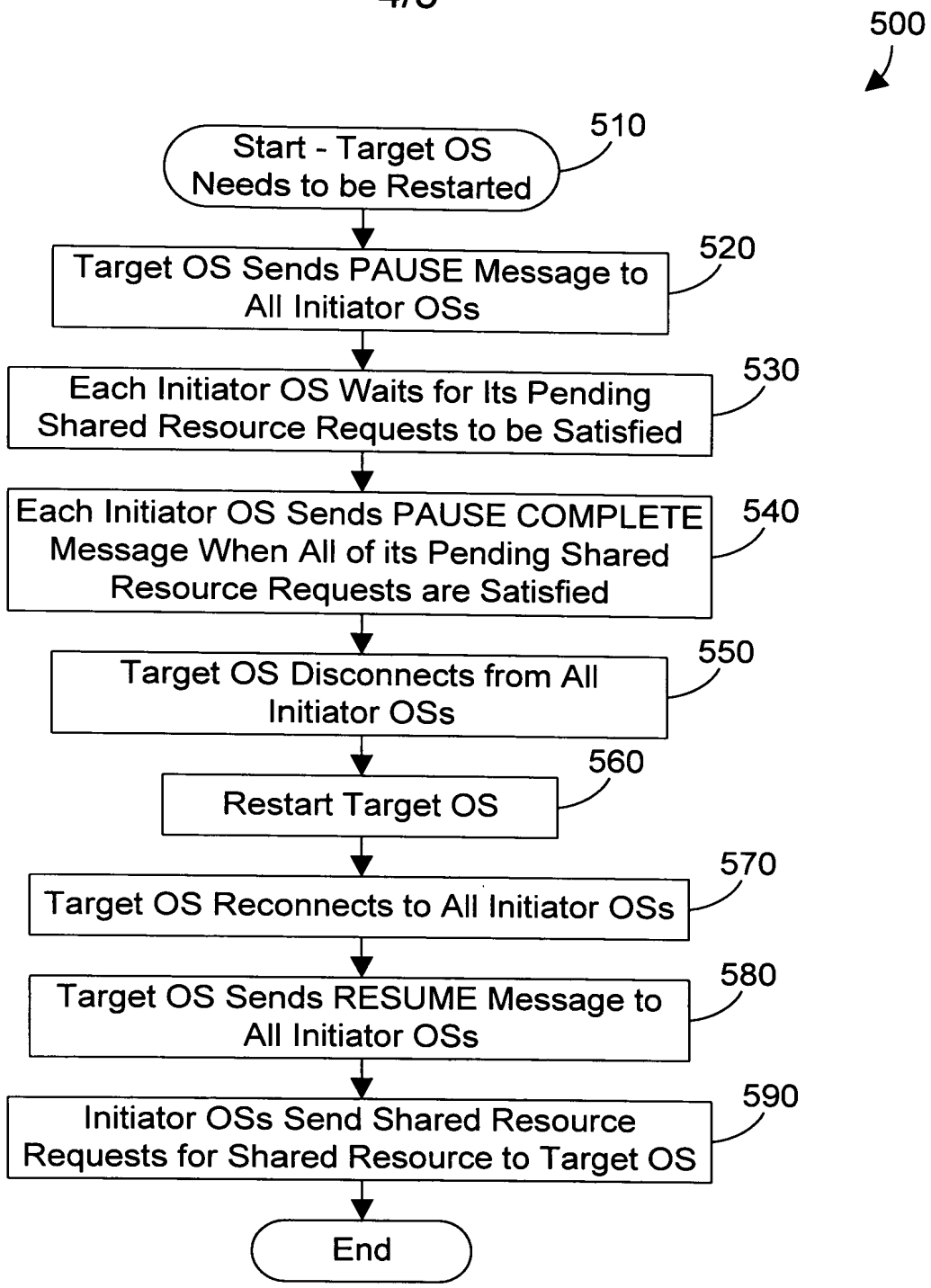
500
510
Start - Target OS Needs to be Restarted
520
Target OS Sends PAUSE Message to All Initiator OSs
530
Each Initiator OS Waits for Its Pending Shared Resource Requests to be Satisfied
540
Each Initiator OS Sends PAUSE COMPLETE Message When All of its Pending Shared Resource Requests are Satisfied
550
Target OS Disconnects from All Initiator OSs
560
Restart Target OS
570
Target OS Reconnects to All Initiator OSs
580
Target OS Sends RESUME Message to All Initiator OSs
590
Initiator OSs Send Shared Resource Requests for Shared Resource to Target OS
End

FIG. 5

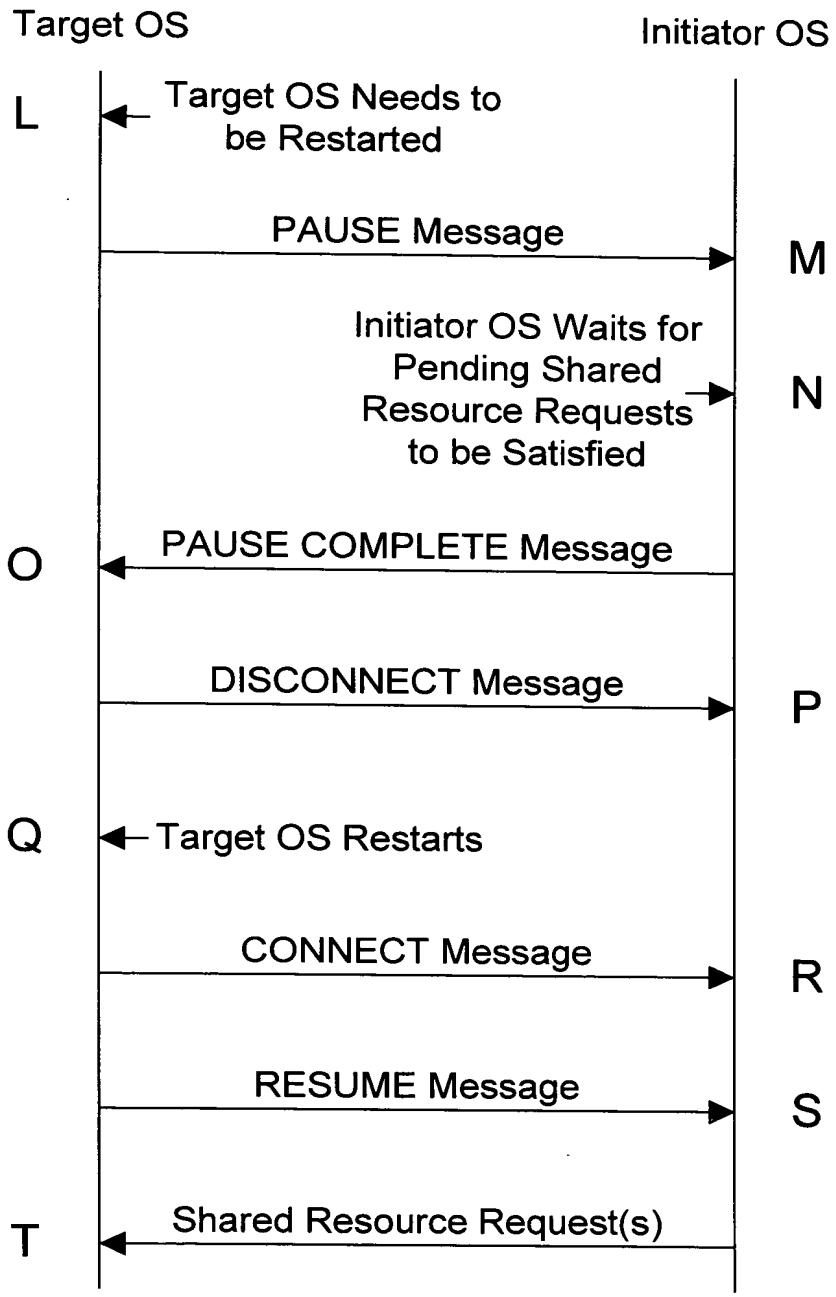
Target OS
Initiator OS
L
Target OS Needs to be Restarted
PAUSE Message
M
Initiator OS Waits for Pending Shared Resource Requests to be Satisfied
N
O
PAUSE COMPLETE Message
DISCONNECT Message
P
Q
Target OS Restarts
CONNECT Message
R
RESUME Message
S
T
Shared Resource Request(s)

FIG. 6